WASHINGTON STATE DEPARTMENT OF ECOLOGY

INITIAL INVESTIGATION FIELD REPORT

ERTS Number: 643248
Parcel #(s): 0318041005
COUNTY: Pierce

SITE INFORMATION

Site Name (e.g., Co. name over door): B & R Auto Wrecking, Spanaway Location	Site Address (including City and Zip+4): 19919 Mountain Hwy E Spanaway, WA 98387	Site Phone: 253-847-6423
Site Contact and Title: Jeff Helget, General Manager	Site Contact Address (including City and Zip+4): B & R Autowrecking 1625 Prairie Rd, Eugene, OR 97402	Site Contact Phone: 541-936-0811 541-762-0071
Site Owner: Rick & Konnie Perlenfein	Site Owner Address (including City and Zip+4): PO Box 640 Corvallis, OR 97339-0640	Site Owner Phone: (541) 928-8581 Konnie
Site Owner Contact: Tom Langseth, Registered Site Assessor	Site Owner Contact Address (including City and Zip+4): Langseth Environmental 7517 Portland Ave, Suite A, Tacoma, WA 98404	Owner Contact Phone: 253-536-6961
Alternate Site Name(s):	Comments:	
Previous Site Owner(s):	Comments:	

Latitude (Decimal Degrees):	47.07568
Longitude (Decimal Degrees):	-122.42370

INSPECTION INFORMATION

Inspection Conducted? Yes ☒ No ☐	Date/Time: 8/28/13, 10:00 AM	Entry Notice: Announced ☒	Unannounced ☐
Photographs taken?	Yes ☒	No ☐	
Samples collected?	Yes ☐	No ☒	If *Yes*, be sure to include a figure/sketch showing sample locations.

RECOMMENDATION

No Further Action (Check appropriate box below):		**LIST on Confirmed and Suspected Contaminated Sites List:** ☐
Release or threatened release does not pose a threat	☐	
No release or threatened release	☐	
Refer to program/agency (Name: _____)	☐	
Independent Cleanup Action Completed (i.e., contamination removed)	☒	

COMPLAINT (Brief Summary of ERTS Complaint):

Customer complaint: Employees at wrecking yard were observed dumping automotive fluids onto the ground.

CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):

Successful remediation of two release areas.

Investigator: J. Seger, TPCHD

Date Submitted: 12/30/14

OBSERVATIONS

Description (please be sure to include the following: site observations, site features and cover, chronology of events, sources/past practices likely responsible for contamination, presence of water supply wells and other potential exposure pathways, etc.):

The subject site, B & R Auto Wrecking (B & R) is located at 19919 Mountain Highway, in Spanaway, WA; unincorporated Pierce County. B & R purchased the subject site (and accessory site) in July, 2010 from Garraway's Auto Wrecking. Garraway's Auto Parts, Inc (FSID 1363) received a NFA from Ecology's VCP on 6/9/2010. This report summarizes four rounds of remedial excavation that occurred (October 2013 to October 2014) in order to complete this cleanup.

The subject site currently consists of two adjacent parcels, listed in the Assessors records as:

- 19919 Mountain Hwy E (Spanaway) APN: 0318041005 4.09 acres Main office/retail
- 19927 Mountain Hwy E (Spanaway) APN: 0318041013 3.07 acres (expansion site)

The primary wrecking yard site consists of a building used for office/retail/storage, a separate dismantle-building and the vehicle storage yard. An unapproved Group-B well was discovered inside the west corner of the main building during my inspection. The owner subsequently obtained approval from the Health Department. The accessory site to the east (19927) consists of a house, shed and recent expansion of the vehicle storage yard. The shed located immediately north of the house, has an individual well located beneath its floor, which is accessed via a stairway.

The property owner of record for both parcels is Rick and Konnie Perlenfein. The Perlenfein's own numerous businesses (in WA, OR and NV) as follows: Perlenfein, Inc, B & R Auto Wrecking, Graham Auto Wrecking, LLC, Meridian Auto Sales and Meridian Auto Wreckers, LLC. The trade name for the previous listed businesses is "B & R Auto Wrecking". Two facilities are located in Pierce County; B & R Auto Wrecking – Spanaway (the subject site) and B & R Auto Wrecking – Graham, at 20011 Meridian E (ERTS # 648201).

On 8/19/13, Chris Greco, Pierce County Public Works, Surface Water Management conducted a site visit in response to a citizen complaint. The reporting party, a customer had witnessed employees pouring automotive fluids onto the ground. During the inspection, Mr. Greco noted poor housekeeping practices involving the storage of waste fluids with no secondary containment, improper storage of batteries and improperly stored engines/transmissions on the ground. Ground staining was noted in front of the dismantle-building and adjacent waste oil storage area. An employee stated that they had recently began placing the engines/transmissions on pallets and relocating them to the Graham location for proper storage. Mr. Greco's inspection information was reported to Ecology for this ERTS case.

On 8/28/13, Sharon Bell and I conducted a site inspection with Jeff Helget and Ryan Mandell, B & R Auto Wrecking. We observed oil-stained soil in front of the concrete slab of the dismantle-building. The dismantle-building is located near the site entrance off of Mountain Highway and consists of a roof between two storage containers and an old cinder block wall storage area at the rear. There are two above ground lifts inside on the concrete slab. The dark oily stain was the length of the concrete slab, approximately 20 feet and the width estimated at approximately 5 feet. B & R had dug down next to the concrete approximately 1-2 feet and could not determine the depth of the release. The exploratory excavation had been filled in and the spoils stored in a drum. We also walked the main access road through vehicle storage area and to the new expansion area to the east. We did not observe any significant petroleum releases in the section that we viewed. B & R had obtained a covered plastic storage bin (approximately 4 feet square) for the purpose of storing used batteries until they are picked-up. They also stated that they were moving engine transmissions to the Graham site where they can be properly processed.

Langseth Environmental Services, Inc (Langseth) was contracted to conduct soil remediation activities. Four excavation and sampling events are reported in two reports dated 3/31/14 and 11/21/14.

CLEANUP REPORT, March 31, 2014:

On 9/11/13, Langseth obtained two grab samples from the B & R excavation spoils for both contaminant characterization and application for a Waste Disposal Authorization permit. Surface Grab -1 was analyzed for: gas, diesel-ext, volatiles, PAH, PCBs and lead. Surface Grab – 2 was only analyzed for diesel-ext. Both samples exceeded the cleanup levels for MTCA Method A for Heavy Oil (2,000 mg/kg) at 55,000 and 135,000 mg/kg, respectively. Sample #1 exceeded the cleanup level for Gasoline (30 mg/kg) at 58 mg/kg.

10/17/13: The first round of excavation/sampling occurred in front of the dismantle-building concrete slab. The final limits of the excavation measured approximately 30 feet long by 10 feet wide and 2.0 - 4.0 feet deep. No groundwater was encountered and the soils were generally gravelly. Twelve discrete confirmation soil samples (# 1 – 12) were obtained; locations/depths as follows:

#1, #2 at west sidewall, 3-3.5 feet deep.
#3, #6, #7 at south sidewall, 4.0, 2.0 and 2.5 feet deep respectively.
#9 at east wall, 2.5 feet deep.
#10, #11, #12 at north sidewall, 2.0, 2.0 and 3.0 feet deep respectively.
#4, #5, #8 at bottom, 4.0, 2.5 and 3.0 feet deep respectively.

All samples were analyzed for: Gas, diesel, heavy oil and BTEX. The analytical results were below the corresponding MTCA cleanup levels except for Samples #1 and #2, both located at the west wall storage container, where the excavation could not be further advanced. Sample #1 exceeded the Heavy Oil cleanup level (2,000 mg/kg) at 44,400 mg/kg. Sample #2 exceeded cleanup levels for

Heavy Oil at 48,700 mg/kg, Gasoline (30/100 mg/kg) at 180 mg/kg, benzene (0.03 mg/kg) at 0.13 mg/kg and xylenes (9.0 mg/kg) at 9.2 mg/kg. Additional remediation took place at a later date which addressed the contamination remaining at the west wall and is described in the second cleanup up report dated 11/21/14.

On 2/5/14, excavation and sampling took place at a second release area exhibiting oil-stained soil. The area was located on the adjacent parcel approximately 40-60 feet southeast of the common property line (near the dismantle-building), and near the southwest cyclone fence bordering Mountain Hwy. The large red steel bins containing engine blocks were removed allowing access for the soil remediation. The limits of the excavation were approximately 20 feet long by 11 feet wide and 24 inches deep. Four confirmation soil samples (# 13 – 16) were obtained from the bottom near each of the four sidewalls at a depth of 18-24 inches.

The samples were analyzed for gas, BTEX, diesel and heavy oil. All four samples were non-detect for gas, BTEX and diesel. The samples were all non-detect for heavy oil except #15 at 1,890 mg/kg which is below the MTCA cleanup level of 2,000 mg/kg.

Approximately 39.35 tons of contaminated soil from the first excavation and 22.09 tons from the second excavation and spoils (61.44 tons total) were disposed of at LRI, Inc. a permitted disposal facility located in Graham, WA, under Waste Disposal Authorization (WDA) # 1727.

CLEANUP REPORT, November 21, 2014:

This report contains documentation for two rounds of remediation that took place in order to obtain clean limits at the west wall near the concrete slab of the dismantle-building and located beneath the west storage container. The WDA (1727A) was amended to include additional tonnage for disposal.

On 8/7/14, the third remedial excavation took place. The west storage container located next to the dismantle-building was temporarily moved to gain access for further soil remediation. The limits of the excavation were approximately 30 feet long by 7 - 8.5 feet wide and 1.5 - 3.0 feet deep. No groundwater was encountered. Ten discrete confirmation soil samples (#17 - 26) were obtained; locations/depths as follows:

#18 at south wall, 2.0 feet deep.
#26 at north wall, 3.0 feet deep.
#19, #22, #25 at bottom (south, center and north, respectively), 2.5 - 3.0, 2.0, and 3.0 feet deep, respectively.
#20, #21, #24 at west wall, 2.5, 2.0, and 3.0 feet deep, respectively.
#17 at east wall south end, 2.0 feet deep.
#23 at east wall center, 2.5 feet deep.

All samples were analyzed for gasoline, BTEX, diesel and heavy oil. Samples were obtained at depths ranging between 2.0 - 3.0 feet. All samples were non-detect or below their respective cleanup levels except sample #23 which exceeded the cleanup level for gasoline (30/100 mg/kg) at 158 mg/kg and for heavy oil (2,000 mg/kg) at 3,590 mg/kg.

On 10/3/14, the fourth and final remediation took place. The west storage container was temporarily moved to gain access for excavation. The area represented by sample #23 was excavated; the final limits were approximately 5 feet long by 6 feet wide and 4 - 4.5 feet deep. Three confirmation soil samples (# 27 - 29) were obtained at depths of 4 - 4.5 feet, 4 - 4.5 feet and 3.5 - 4.5 feet, respectively. All analytical results were non-detect for gasoline, BTEX, diesel and heavy oil.

Approximately 23.28 tons of contaminated soil from the third excavation and 6.91 tons from the fourth excavation (30.19 tons total) were disposed of at LRI, Inc. under WDA 1727A.

The amount of petroleum contaminated soils that were disposed of from four rounds of remediation totals approximately 91.63 tons. All loads were transported by Langseth to LRI, Inc. a permitted disposal facility located in Graham, WA.

The two petroleum contaminated areas (northeast edge of the dismantle-building and southwest fence line of the 19927 site) lying near Mountain Hwy (SR 7), appear to have been successfully remediated.

The Heath Department recommends closing this case with no further action needed.

(fill in contaminant matrix below with appropriate status choice from the key below the table)

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	BEDROCK	DESCRIPTION
Non-Halogenated Organics	Phenolic Compounds						Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol)
	Non-Halogenated Solvents	RB					Organic solvents, typically volatile or semi-volatile, not containing any halogens. To determine if a product has halogens, search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is not a Cl, I, Br, F in the formula, it's not halogenated. (Examples: acetone, benzene, toluene, xylenes, methyl ethyl ketone, ethyl acetate, methanol, ethanol, isopropranol, formic acid, acetic acid, stoddard solvent, Naptha). *Use this when TEX contaminants are present independently of gasoline.*
	Polynuclear Aromatic Hydrocarbons (PAH)	B					Hydrocarbons composed of two or more benzene rings.
	Tributyltin						The main active ingredients in biocides used to control a broad spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems. (Examples: Tributyltin; monobutyltin; dibutyltin)
	Methyl tertiary-butyl ether						MTBE is a volatile oxygen-containing organic compound that was formerly used as a gasoline additive to promote complete combustion and help reduce air pollution.
	Benzene	RB					Benzene
	Other Non-Halogenated Organics						Other Non-Halogenated Organics (Example: Phthalates)
	Petroleum Diesel	B					Petroleum Diesel
	Petroleum Gasoline	RB					Petroleum Gasoline
	Petroleum Other	RB					Crude oil and any fraction thereof. Petroleum products that are not specifically Gasoline or Diesel.
Halogenated Organics (see notes at bottom)	PBDE						Polybrominated di-phenyl ether
	Other Halogenated Organics						Other organic compounds with halogens (chlorine, fluorine, bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the formula, it is halogenated. (Examples: Hexachlorobutadiene; hexachlorobenzene; pentachlorophenol)
	Halogenated solvents						Solvents containing halogens (Halogen is typically chlorine, but can also be fluorine, bromine, iodine), and their breakdown products (Examples: Trichloroethylene; Tetrachloroethylene (aka Perchloroethylene); TCE; TCA; trans and cis 1,2 dichloroethylene; vinyl chloride)
	Polychlorinated Biphenyls (PCB)	B					Any of a family of industrial compounds produced by chlorination of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and teratogenic effects
	Dioxin/dibenzofuran compounds (see notes at bottom)						A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). *Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270*
Metals	Metals - Other						Metals other than arsenic, lead, or mercury. (Examples: cadmium, antimony, zinc, copper, silver)
	Lead	B					Lead
	Mercury						Mercury

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	BEDROCK	DESCRIPTION
	Arsenic						Arsenic
Pesticides	Non-halogenated pesticides						Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb)
	Halogenated pesticides						Pesticides with halogens (Examples: DDT; DDE; Chlordane; Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan, dieldrin, endrin)
Other Contaminants	Radioactive Wastes						Wastes that emit more than background levels of radiation.
	Conventional Contaminants, Organic						Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon)
	Conventional Contaminants, Inorganic						Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia)
	Asbestos						All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials.
	Other Deleterious Substances						Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments))
	Benthic Failures						Failures of the benthic analysis standards from the Sediment Management Standards.
	Bioassay Failures						For sediments, a failure to meet bioassay criteria from the Sediment Management Standards. For soils, a failure to meet TEE bioassay criteria for plant, animal or soil biota toxicity.
Reactive Wastes	Unexploded Ordinance						Weapons that failed to detonate or discarded shells containing volatile material.
	Other Reactive Wastes						Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal)
	Corrosive Wastes						Corrosive wastes are acidic or alkaline (basic) wastes that can readily corrode or dissolve materials they come into contact with. Wastes that are highly corrosive as defined by the Dangerous Waste Regulation (WAC 173-303-090(6)). (Examples: Hydrochloric acid; sulfuric acid; caustic soda)

Status choices for contaminants	
Contaminant Status	**Definition**
B - Below Cleanup Levels (Confirmed)	The contaminant was tested and found to be below cleanup levels. (Generally, we would not enter each and every contaminant that was tested; for example if an SVOC analysis was done we would not enter each SVOC with a status of "below". We would use this for contaminants that were believed likely to be present but were found to be below standards when tested
S - Suspected	The contaminant is suspected to be present; based on some knowledge about the history of the site, knowledge of regional contaminants, or based on other contaminants known to be present
C - Confirmed Above Cleanup Levels	The contaminant is confirmed to be present above any cleanup level. For example - above MTCA method A, B, or C; above Sediment Quality Standards; or above a presumed site-specific cleanup level (such as human health criteria for a sediment contaminant).
RA - Remediated - Above	The contaminant was remediated, but remains on site above the cleanup standards (for example - capped area).
RB - Remediated - Below	The contaminant was remediated, and no area of the site contains this contaminant above cleanup standards (for example - complete removal of contaminated soils).

Halogenated chemicals and solvents: Any chemical compound with chloro, bromo, iodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, butane, pentane, hexane, heptane or octane) and may also be used for or registered as pesticides or fumigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivitive. Referral to the HSDB is recommended you are unfamiliar with a chemical name or compound, as it contains useful information about synonyms, uses, trade names, waste codes, and other regulatory information about most toxic or potentially toxic chemicals.

FOR ECOLOGY USE ONLY (For Listing Sites):

How did the Site come to be known: ☐ **Site Discovery (received a report):** _____ (Date Report Received)
☐ **ERTS Complaint**
☐ **Other (please explain):** _____

Does an Early Notice Letter need to be sent: ☐ Yes ☐ No
If *No*, please explain why: _____

NAICS Code (if known): _____
Otherwise, briefly explain how property is/was used (i.e., gas station, dry cleaner, paint shop, vacant land, etc.):
_____

Site Unit(s) to be created (Unit Type): ☐ Upland (includes VCP & LUST) ☐ Sediment

If multiple Units needed, please explain why: _____

Cleanup Process Type (for the Unit): ☐ No Process ☐ Independent Action
☐ Voluntary Cleanup Program ☐ Ecology-supervised or conducted
☐ Federal-supervised or conducted

Site Status: ☐ Awaiting Cleanup ☐ Construction Complete – Performance Monitoring
☐ Cleanup Started ☐ Cleanup Complete – Active O&M/Monitoring
☐ No Further Action Required

Site Manager (Default: Southwest Region): _____

Specific confirmed contaminants include:

_____ in Soil

_____ in Groundwater

_____ in Other (specify matrix: _____)

Facility/Site ID No. (if known):
_____

COUNTY ASSESSOR INFO:

Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.